

I. AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the present application.

Listing of Claims:

Claim 1. (Original) A method for collecting and displaying object interaction on a target comprising the steps of:

logging object interaction data on a target over a monitoring period;
displaying the object interaction data as a graph, the graph having a plurality of nodes and at least one line, each node being associated with a corresponding object, each line connecting two of the nodes and representing an interaction between the respective objects associated with the two nodes.

Claim 2. (Original)The method of claim 1, wherein the displaying step comprises displaying the graph on a host computing environment, and wherein the method further comprises the step of, prior to the displaying step, uploading the logged object interaction data from the target to the host computing environment.

Claim 3. (Original)The method of claim 1, wherein the object interaction data is operating system object interaction data.

Claim 4. (Original)The method of claim 1, wherein the step of logging object interaction data comprises recording interactions between operating system objects, the operating system objects including one or more of a semaphore, an ISR, a task and a memory call.

Claim 5. (Original)The method of claim 1, wherein each line is terminated with at least one arrow.

Claim 6. (Original)The method of claim 5, wherein each arrow on each line is indicative of a direction of interaction between the two nodes connected by said each line.

Claim 7. (Original)The method of claim 1, further comprising the step of accepting, as input from a user, a query for information regarding the logged object interaction data, and displaying information responsive to the query to the user.

Claim 8. (Original)The method of claim 1, wherein the logging step is performed by a WindView development tool.

Claim 9. (Original)The method of claim 8, wherein the WindView development tool is a WindView 2.0 development tool.

Claim 10. (Currently Amended) The method of claim 8 ~~claim 9~~, wherein the WindView development tool is a WindView 1.0 development tool.

Claim 11. (Original)The method of claim 1, wherein the logging step is performed by a Linux Trace Toolkit development tool.

Claim 12. (Original)A system comprising:

- a target environment;
- a display;
- an executable logging component, the executable logging component logging object interaction data on the target environment over a monitoring period;
- an executable graphing component, the executable graphing component displaying the object interaction data as a graph on the display, the graph having a plurality of nodes and at least one line, each node being associated with a corresponding object, each line connecting two of the nodes and representing an interaction between the respective objects associated with the two nodes.

Claim 13. (Original)The system of claim 12, wherein the executable logging component executes in the target environment.

Claim 14. (Original)The system of claim 12, wherein the executable graphing component and the executable logging component both execute on a common processor.

Claim 15. (Original)The system of claim 12, further comprising a host computing environment coupled to the target environment and to the display, the executable graphing component executing on the host computing environment.

Claim 16. (Original)The system of claim 15, wherein the executable logging component executes on the target environment.

Claim 17. (Original)The system of claim 16, wherein host computing environment uploads the logged object interaction data from the target environment.

Claim 18. (Original)The system of claim 12, wherein the object interaction data is operating system object interaction data.

Claim 19. (Original)The system of claim 12, wherein the executable logging component records interactions between operating system objects, the operating system objects including one or more of a semaphore, an ISR, a task and a memory call.

Claim 20. (Original)The system of claim 12, wherein each line is terminated with at least one arrow.

Claim 21. (Original)The system of claim 20, wherein each arrow on each line is indicative of a direction of interaction between the two nodes connected by said each line.

Claim 22. (Original)The system of claim 12, wherein the executable graphing component accepts, as input from a user, a query for information regarding the logged object interaction data, and displays information responsive to the query to the user.

Claim 23. (Original)The system of claim 12, wherein the executable logging component is a component of a WindView development tool.

Claim 24. (Original)The system of claim 23, wherein the WindView development tool is a WindView 2.0 development tool.

Claim 25. (Original)The system of claim 23, wherein the WindView development tool is a WindView 1.0 development tool.

Claim 26. (Original)The system of claim 12, wherein the executable logging component is a component of a Linux Trace Toolkit development tool.

Claim 27. (Currently Amended) A host computing environment for accepting data from a target processor, comprising:

an executable component for executing on a host computing environment, the component receiving, from a target environment, object interaction data for objects executing in the target environment, the executable component displaying the object interaction data as a graph on a ~~the~~ display, the graph having a plurality of nodes and at least one line, each node being associated with a corresponding object, each line connecting two of the nodes and representing an interaction between the respective objects associated with the two nodes.

Claim 28. (Original)The host computing environment of claim 27, wherein each line is terminated with at least one arrow.

Claim 29. (Original)The host computing environment of claim 28, wherein each arrow on each line is indicative of a direction of interaction between the two nodes connected by said each line.

Claim 30. (Original)The system of claim 27, wherein the executable component accepts, as input from a user, a query for information regarding the logged object interaction data, and displays information responsive to the query to the user.

Claim 31. (Original)A computer readable media, having stored thereon, computer executable process steps operable to control a computer to display object interaction data as a graph on a display, the graph having a plurality of nodes and at least one line, each node being associated with a corresponding object, each line connecting two of the nodes and representing an interaction between the respective objects associated with the two nodes.

Claim 32. (Original)The method of claim 1, further comprising the steps of:
identifying isolated objects based upon the logged interaction data; and
generating a protection domain for the isolated objects.

Claim 33. (Original)The method of claim 32, wherein the protection domain is a VxWorks AE protection domain.